

FIG. 1

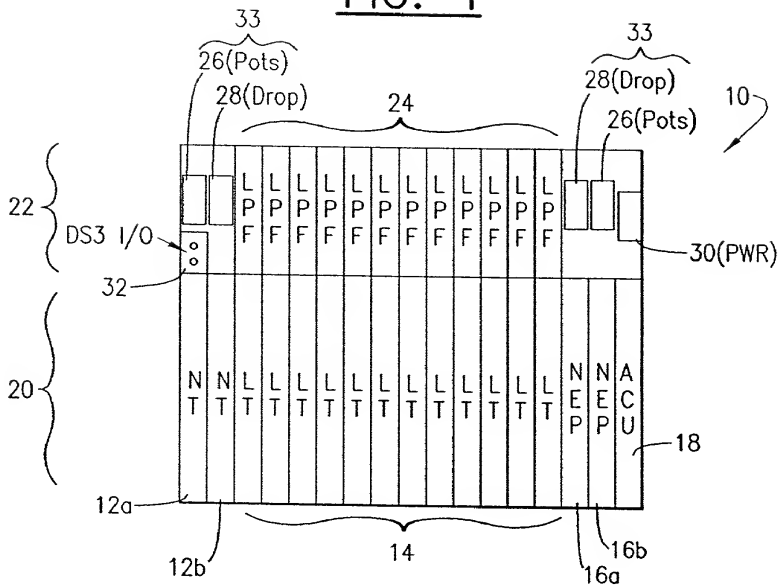
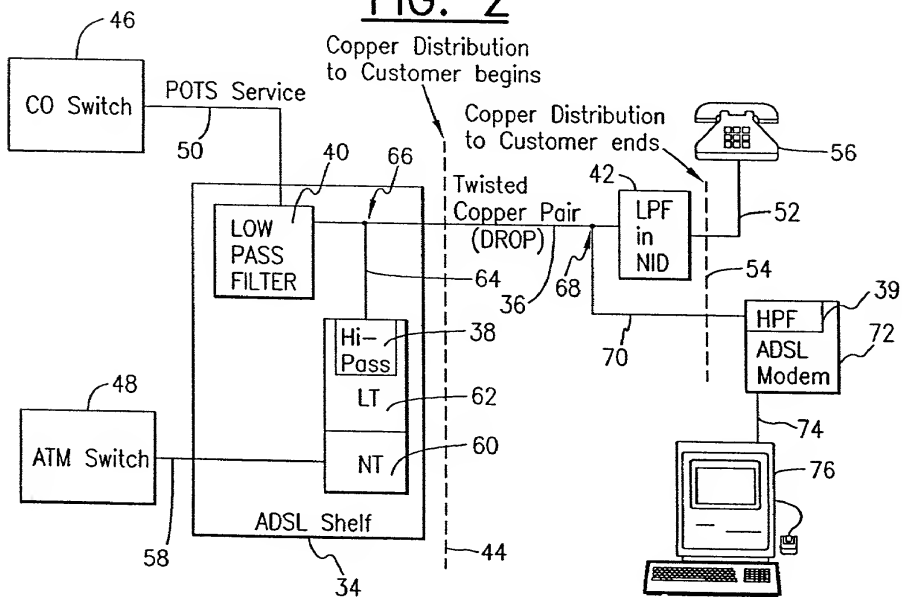


FIG. 2



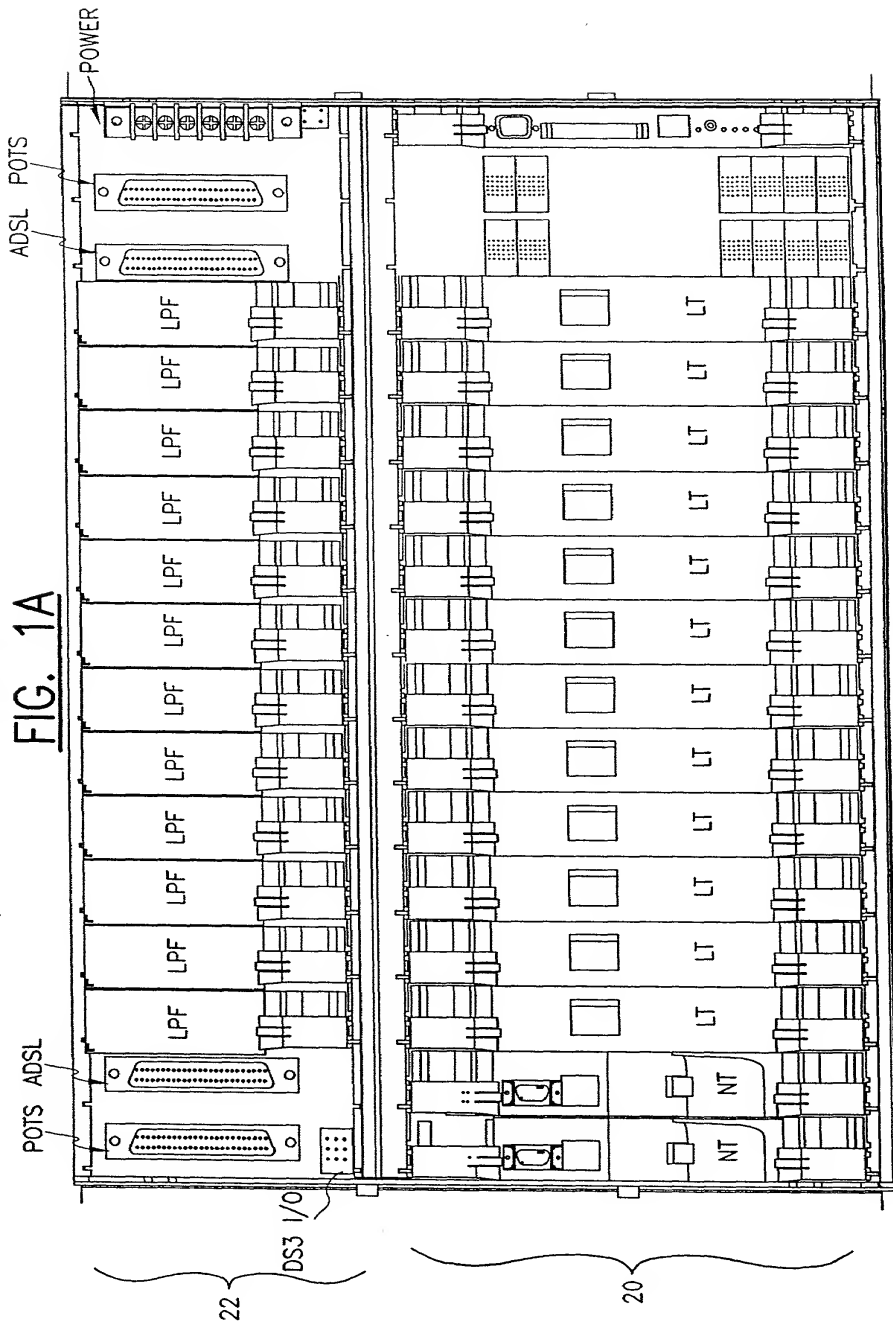


FIG. 1B

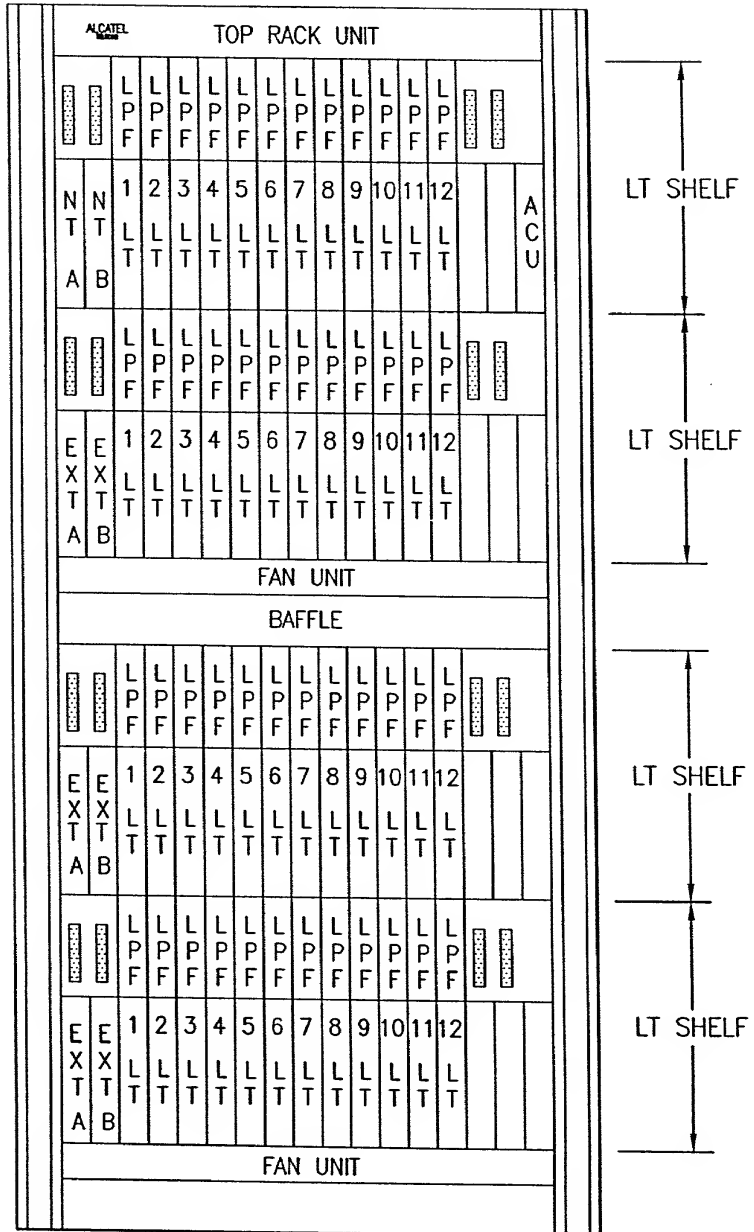


FIG. 1C

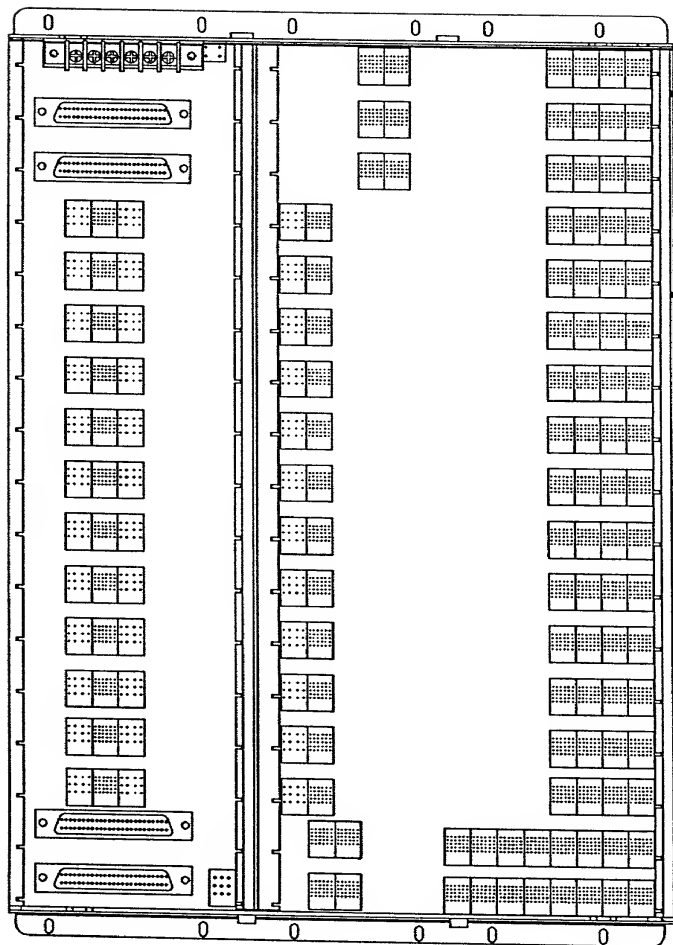


FIG. 1D

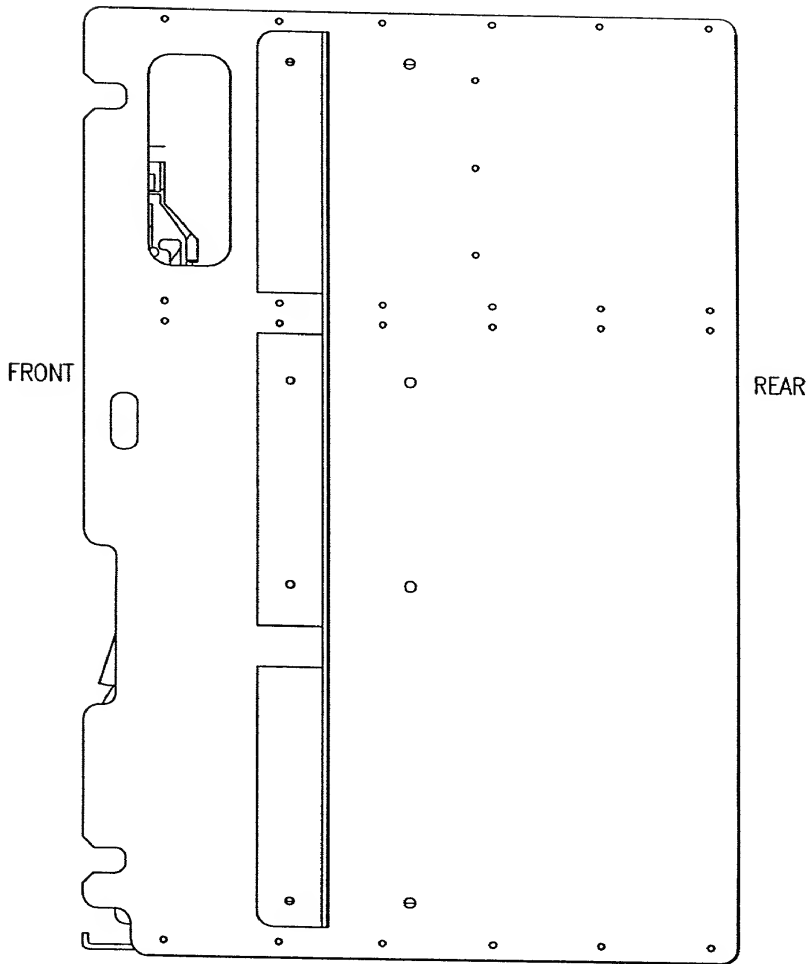


FIG. 1E

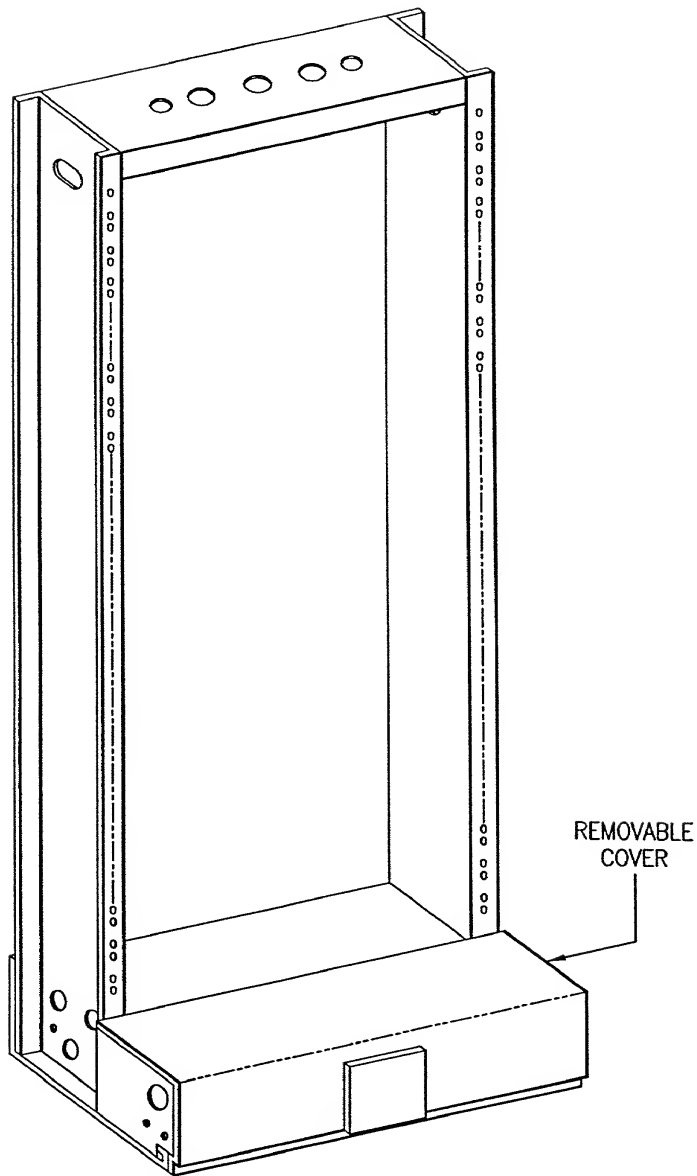


FIG. 3

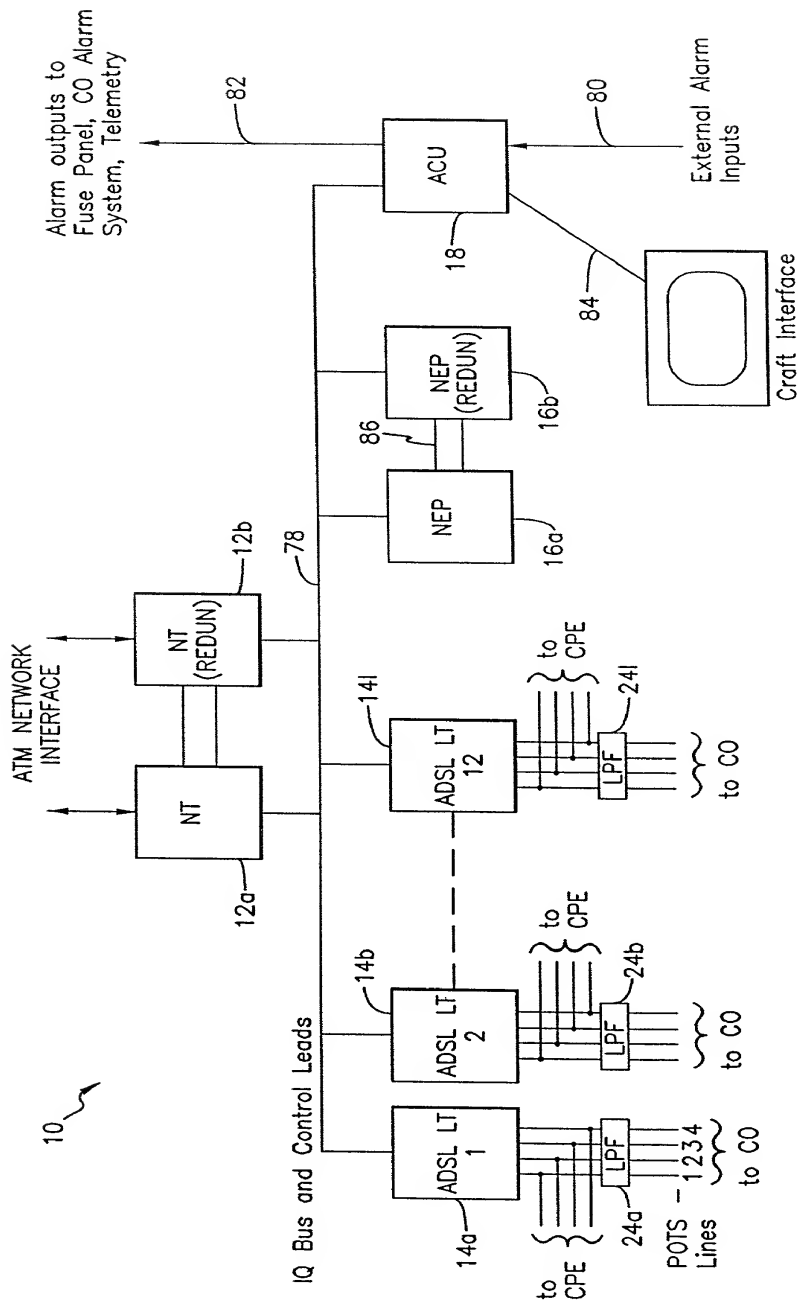


FIG. 3A

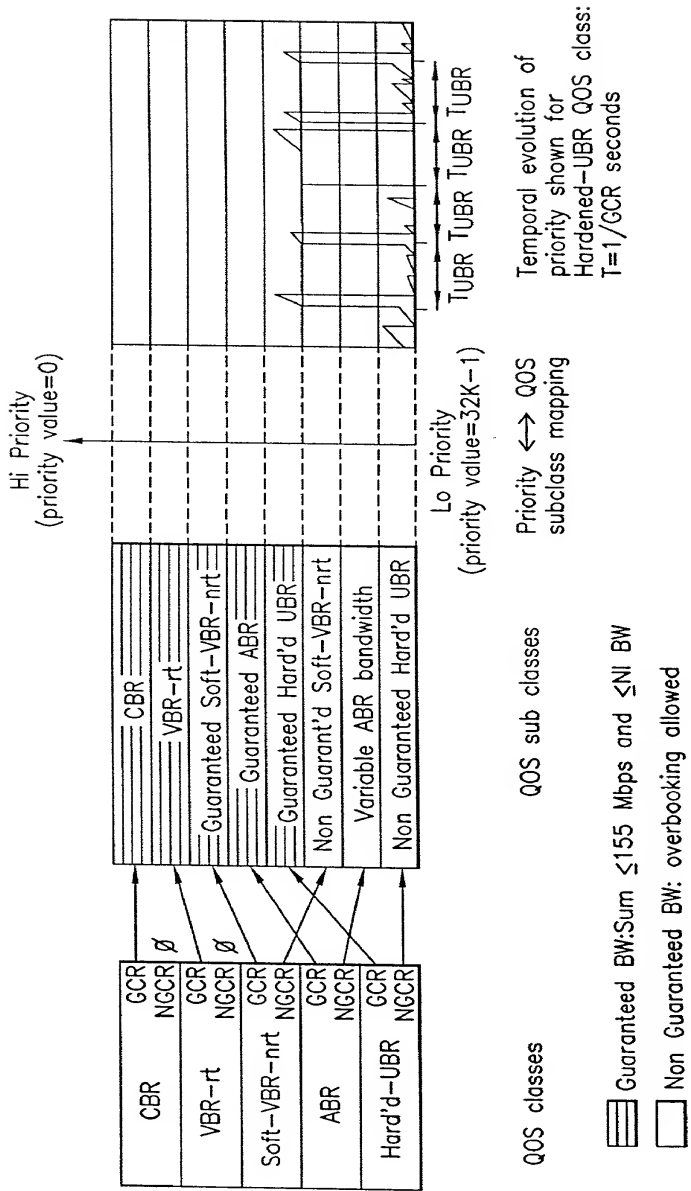


FIG. 4

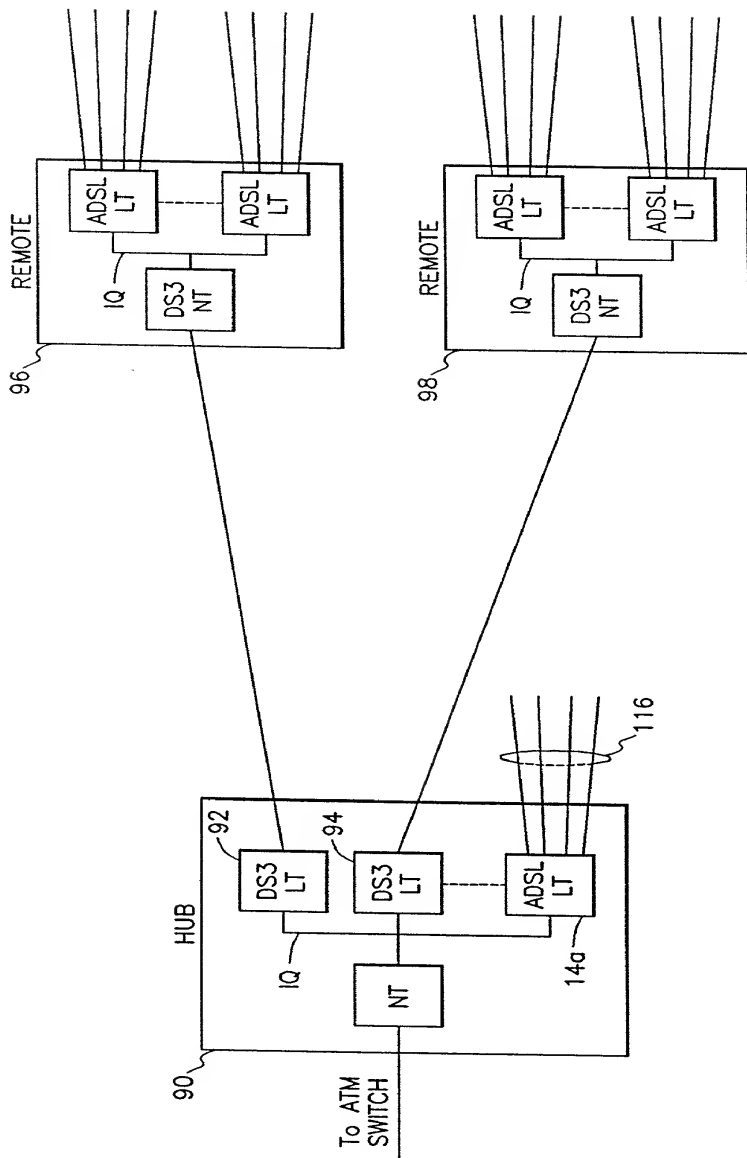


FIG. 4A

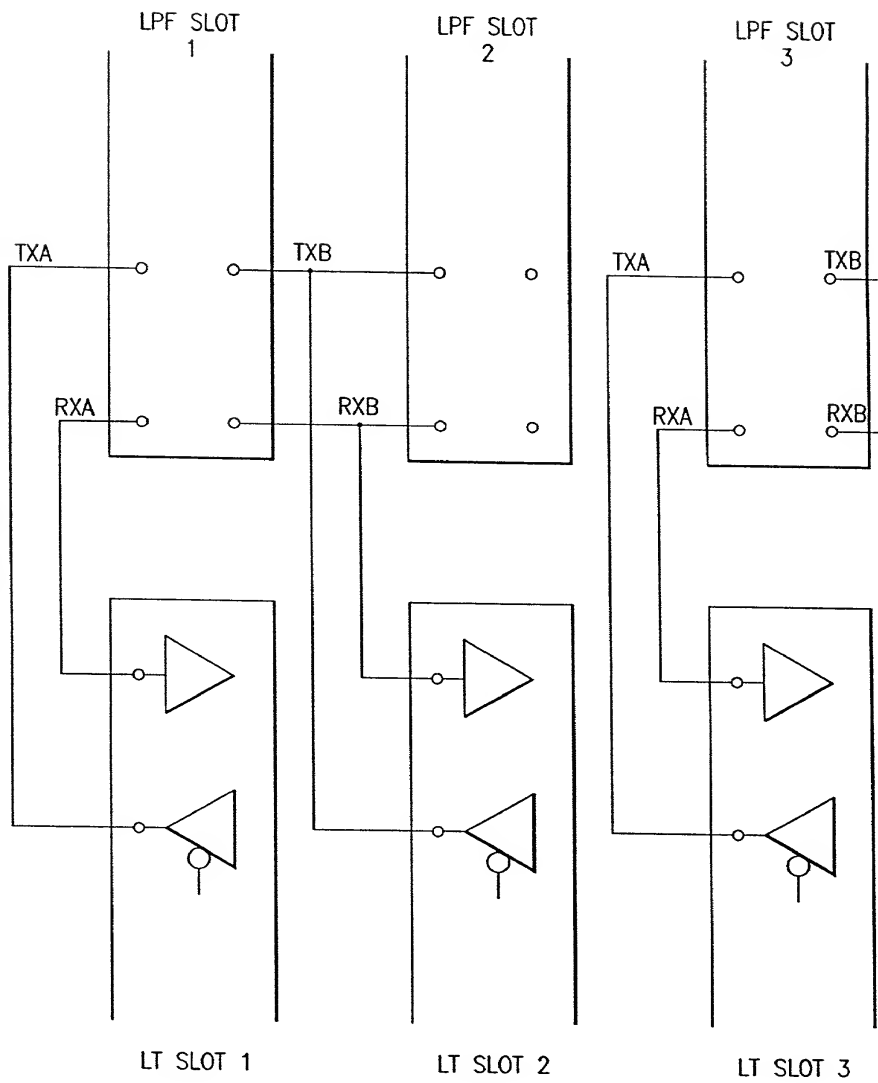
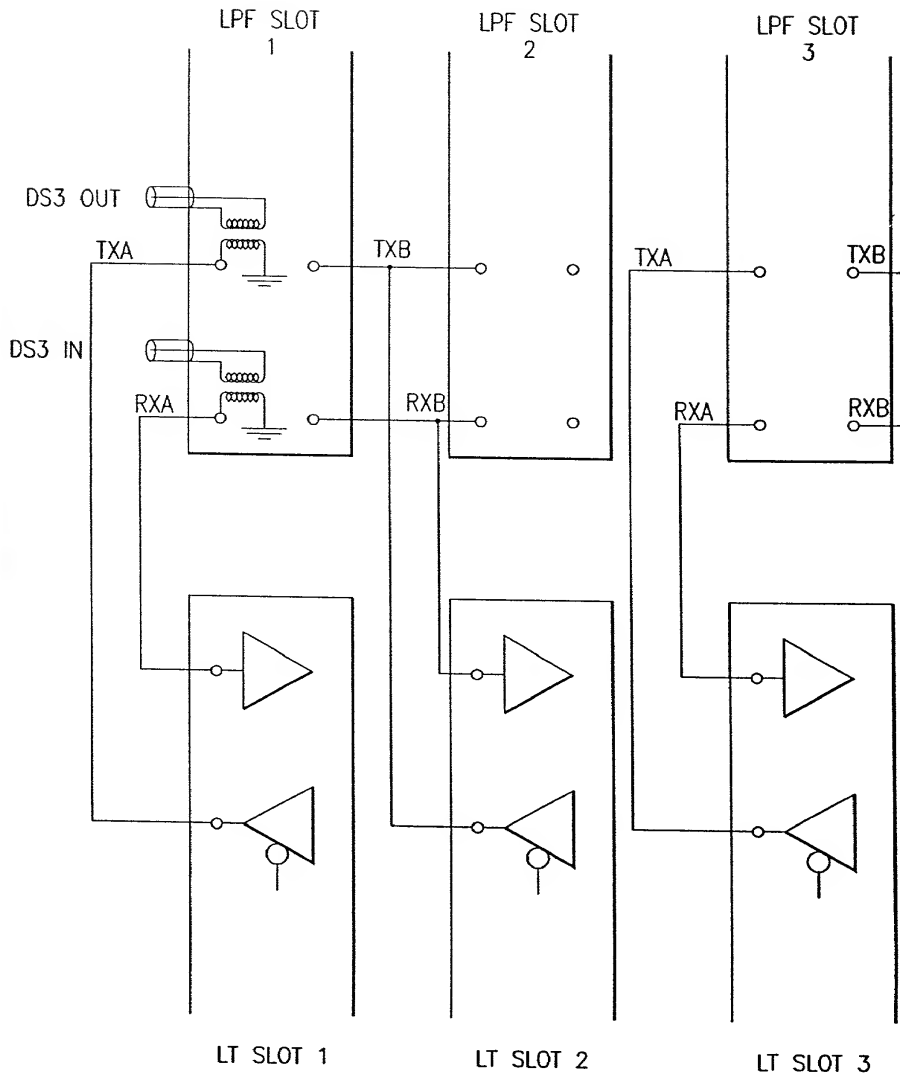


FIG. 4B



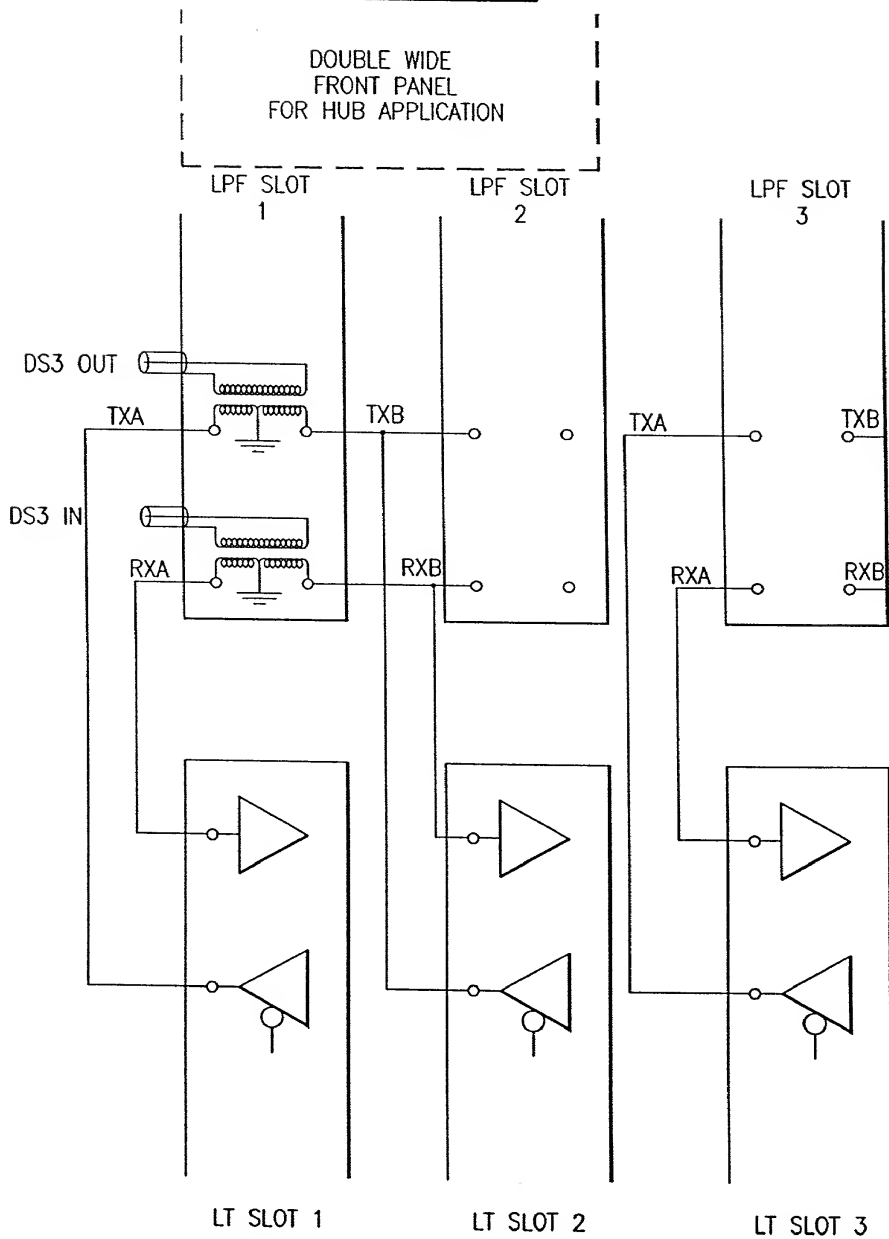
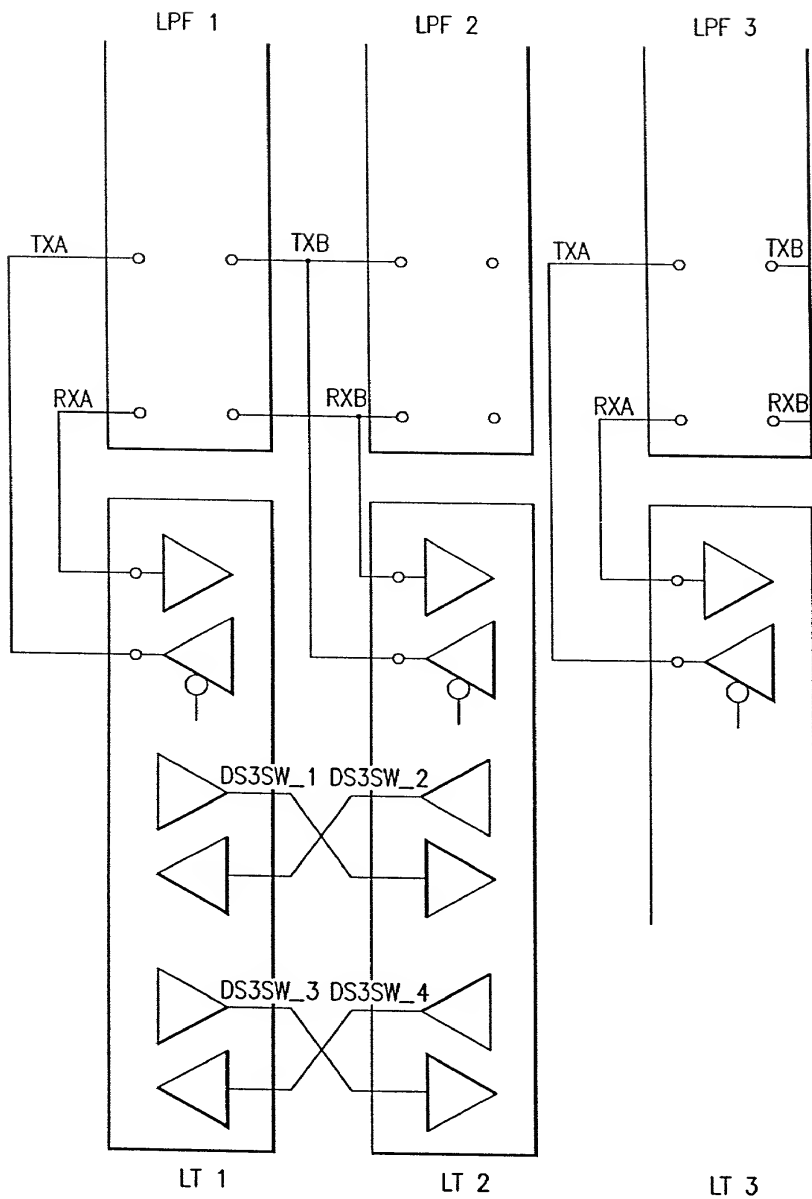
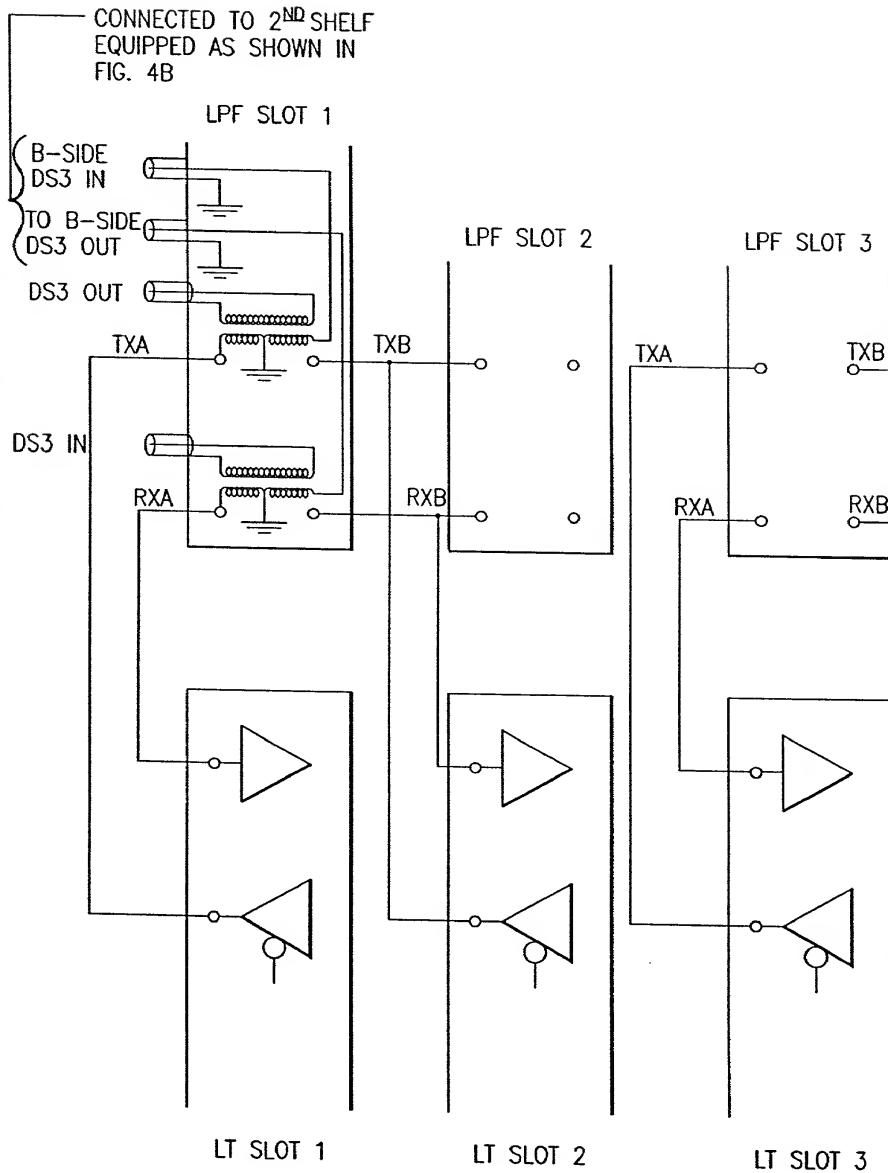
[illegible]

FIG. 4D



[illegible]

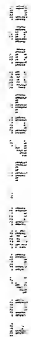


FIG. 7D



FIG. 7A

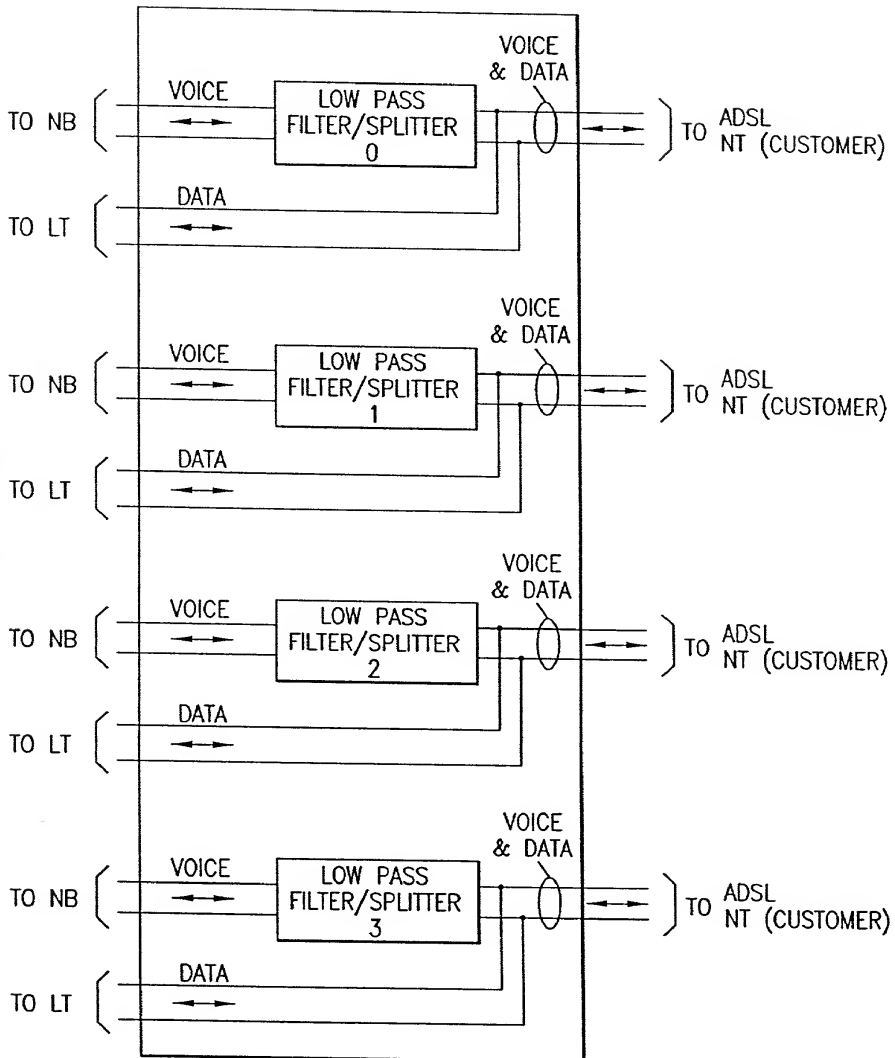
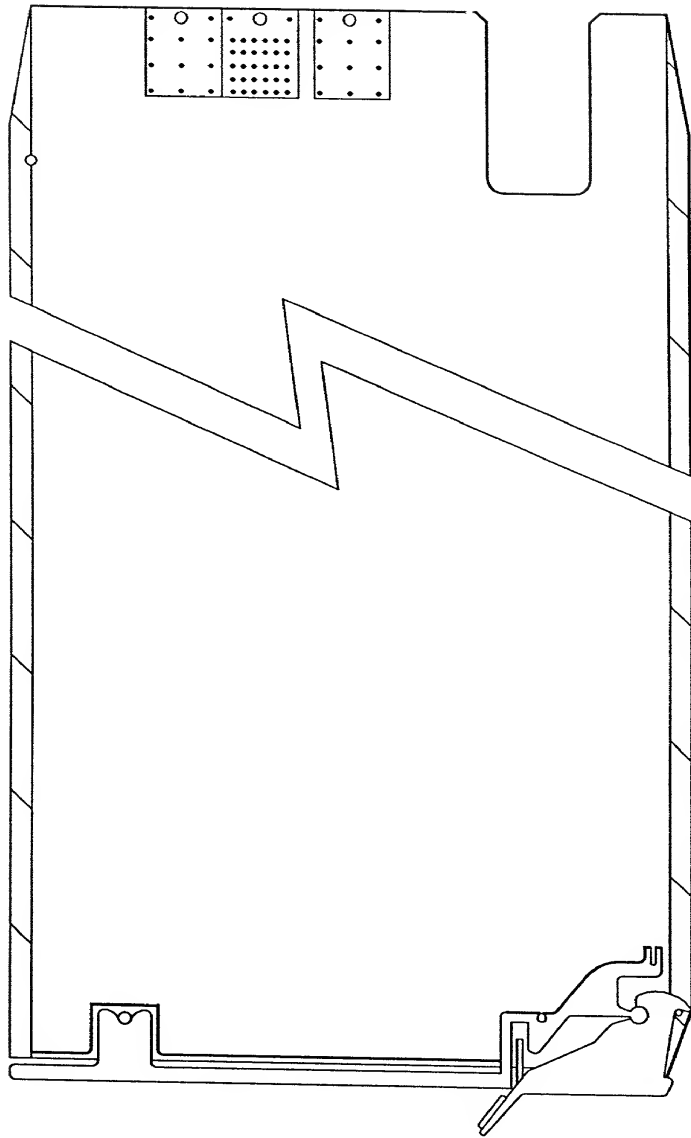


FIG. 7B



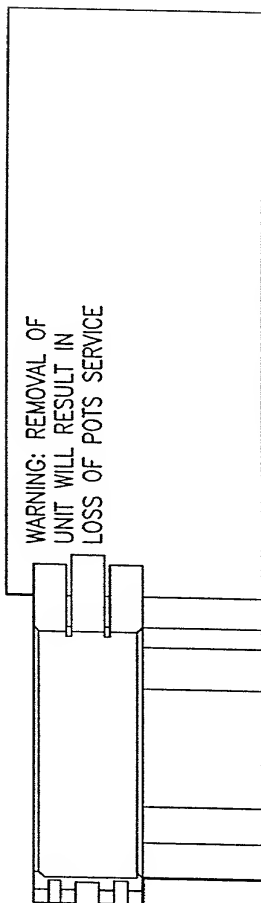


FIG. 7C

FIG. 8

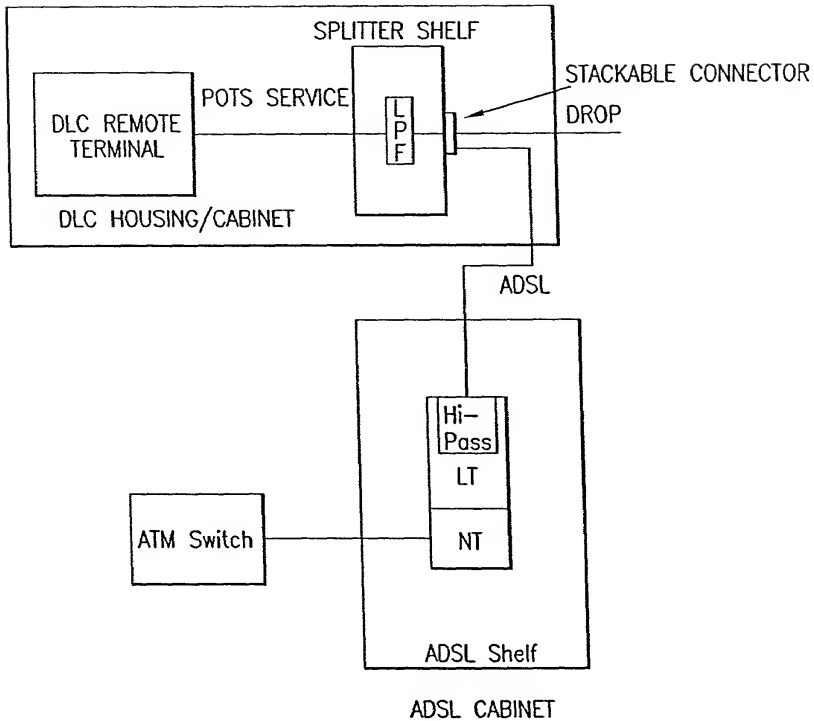


FIG. 13D

INDICATOR		MEANING
NAME	COLOR	
ATMF-25	Green	ATMF data transport activity
TX/RX	Green	Data transmit/receive
Line Error	Red	Excessive line errors-bad ADSL line
10 Base-T	Green	Ethernet data transport activity
Power/Sync.	Red	Power-on - initialization phase
	Green	Line synchronization-ready to operate

FIG. 8A

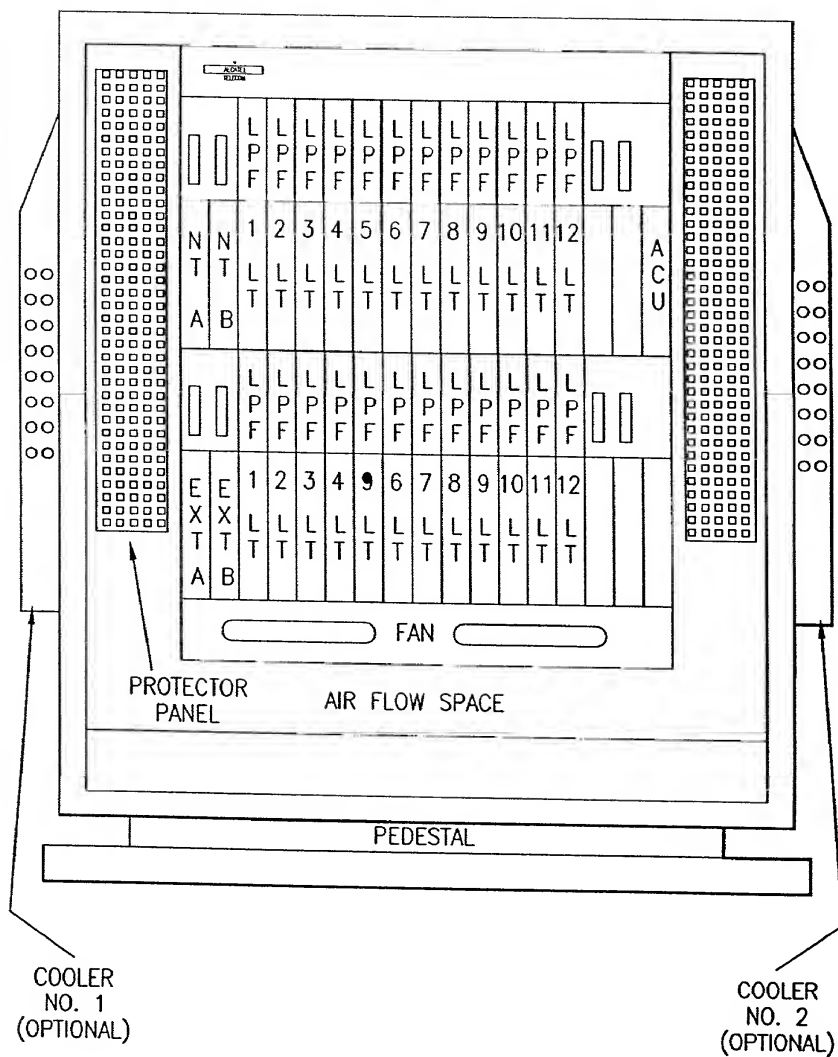
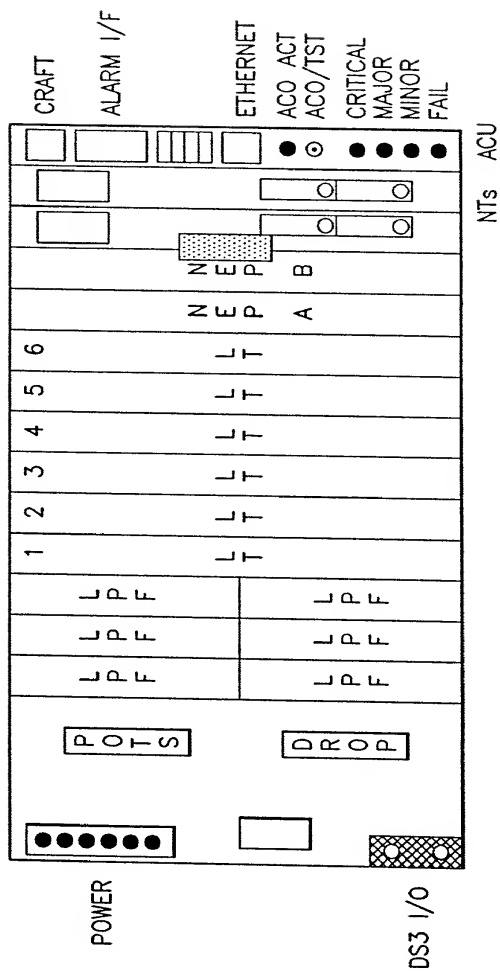


FIG. 9



140

FIG. 10

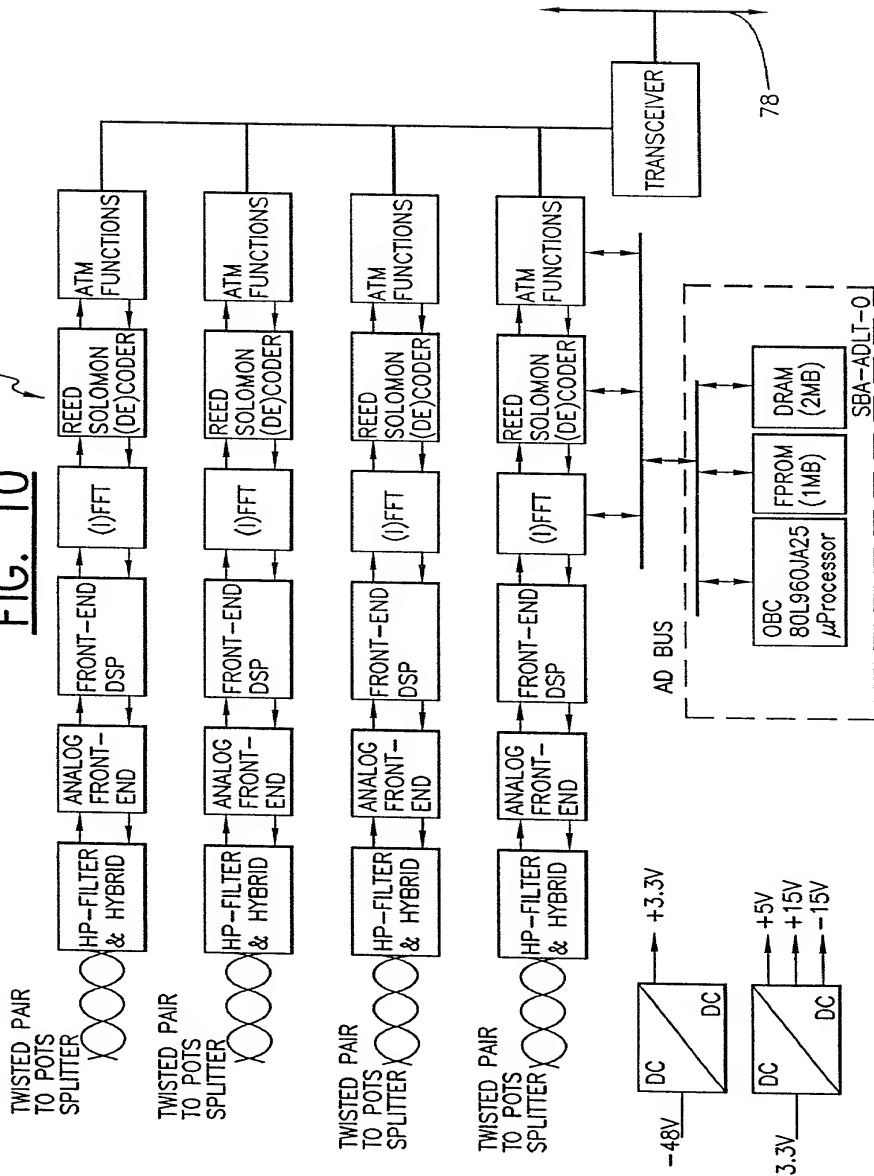


FIG. 10A

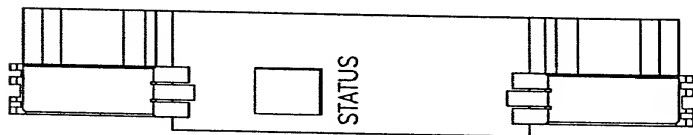


FIG. 10B

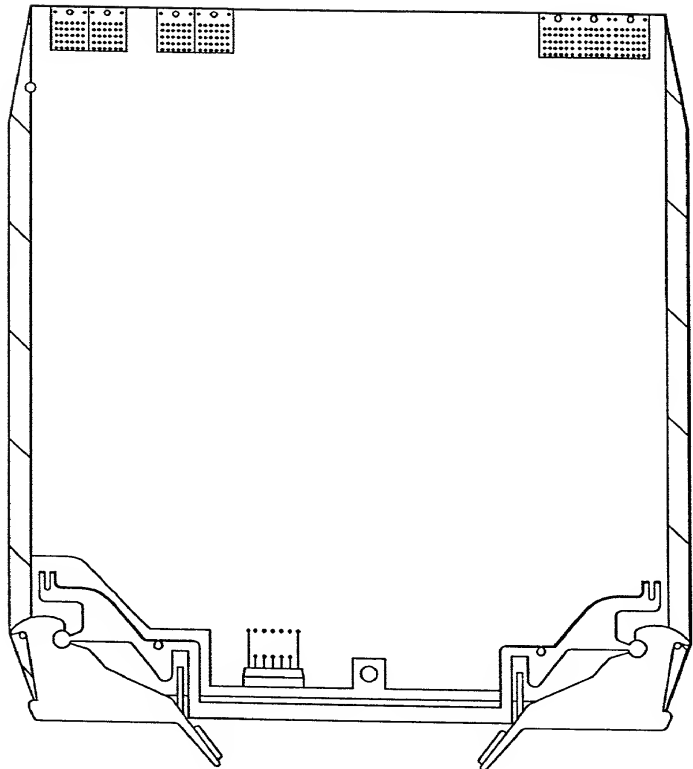


FIG. 11

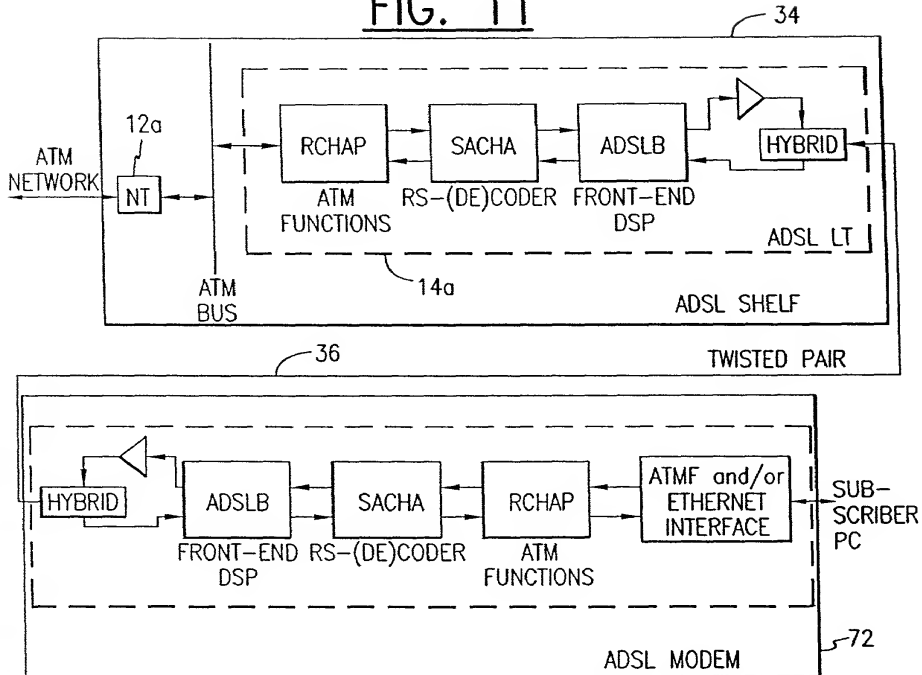


FIG. 12

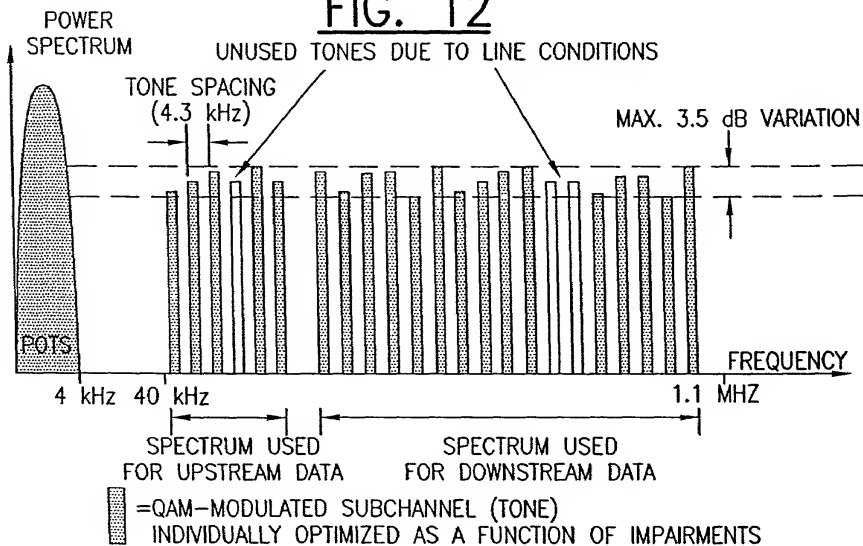


FIG. 13A

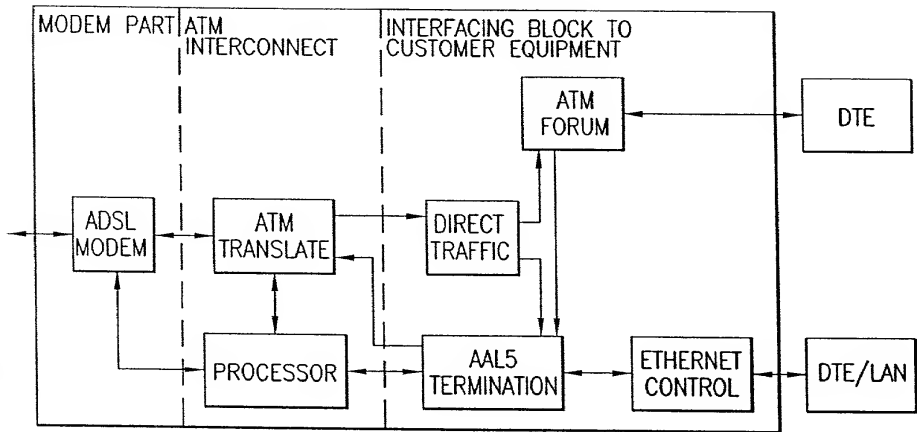


FIG. 13B

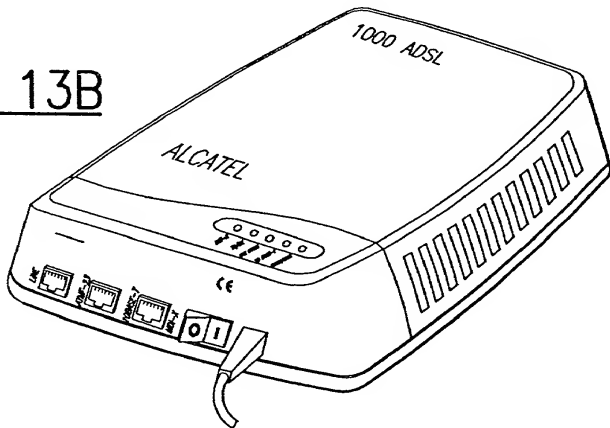


FIG. 13C

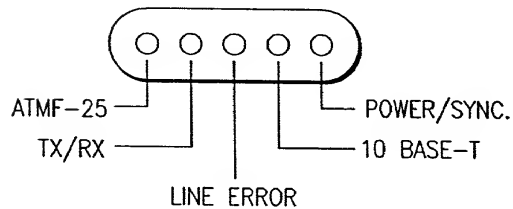


FIG. 13E

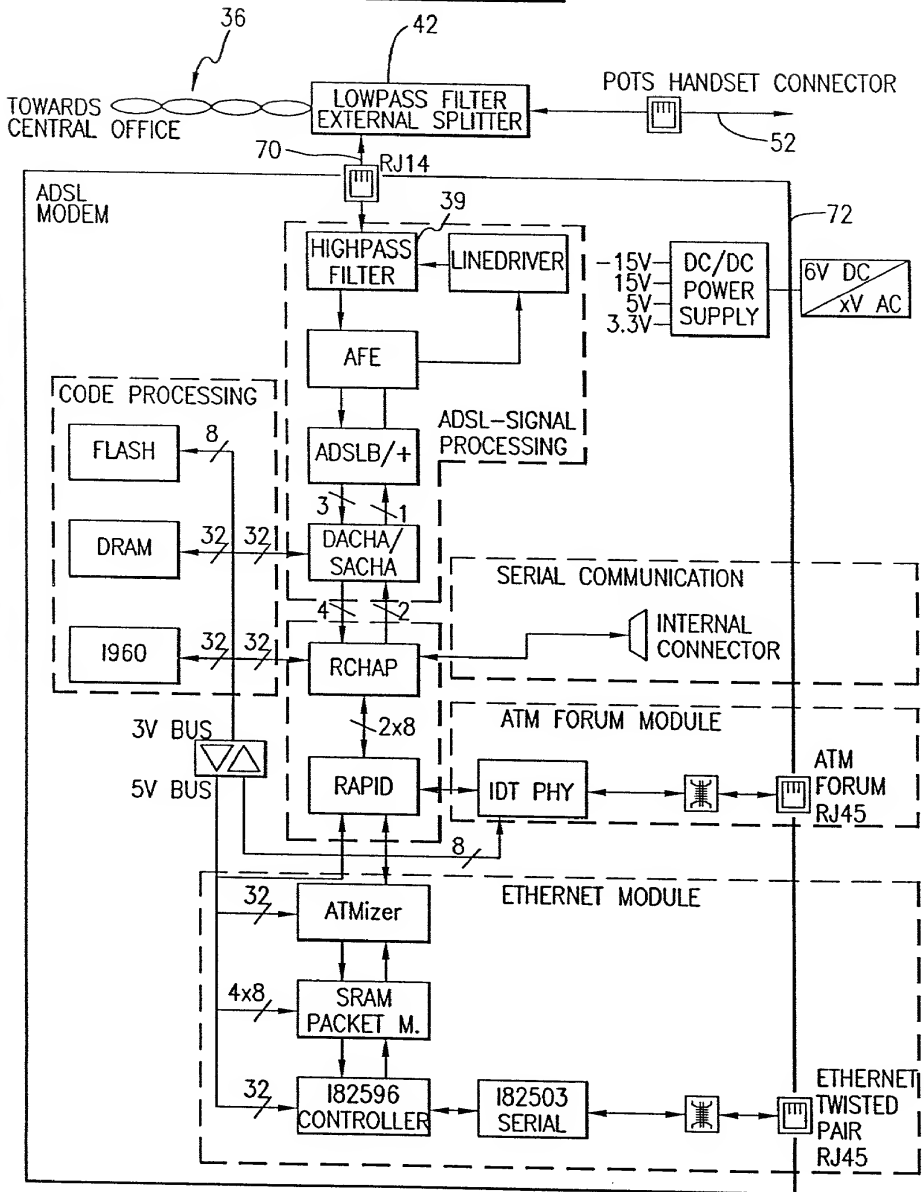


FIG. 14B

	DOWNSTREAM† FUNCTIONS	UPSTREAM† FUNCTIONS	
①	Optical interface	Reading ATM cells from the ATM interface (IQ BUS)	⑤
	Locking on received clock	ATM cell extraction	
	Serial to parallel conversion	ATM cell insertion	
②	STM1/STS3c frame alignment recovery	ATM layer processing plus cell rate decoupling	⑥
	STM1/STS3c descrambling	ATM cell Header Error Control (HEC) calculation	
	F1, F2, or F3 OAM functions	ATM cell payload scrambling	
③	ATM cell delineation (in virtual container type 4s)	Mapping of ATM cells in virtual container type 4s	⑦
	ATM cell HEC checking	F1, F2, or F3 OAM functions	
	ATM cell payload descrambling	STM1/STS3c scrambling	
④	ATM layer processing plus cell rate decoupling	STM1/STS3c frame generation	⑧
	ATM cell extraction	Parallel to serial conversion	
	ATM cell insertion	Produce transmit clock out of received clock or local oscillator	
	Provision of access to the ATM IQ bus	Optical interface	

Note †Upstream is in the direction of the transport system and downstream is in the direction of the ATM IQ interface.

FIG. 14A

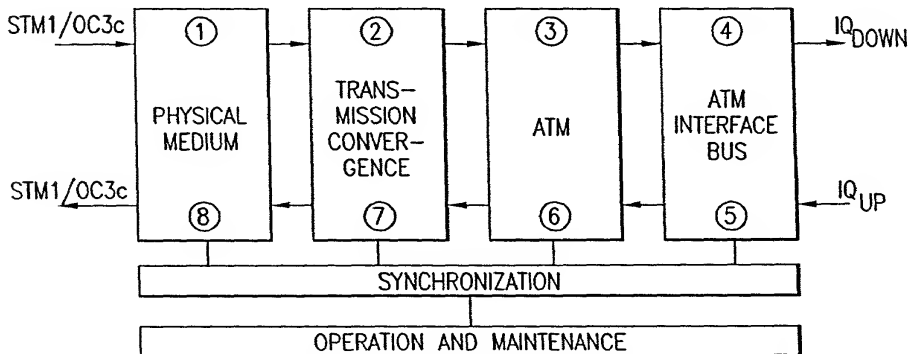


FIG. 14C

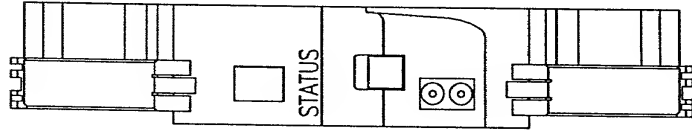


FIG. 14D

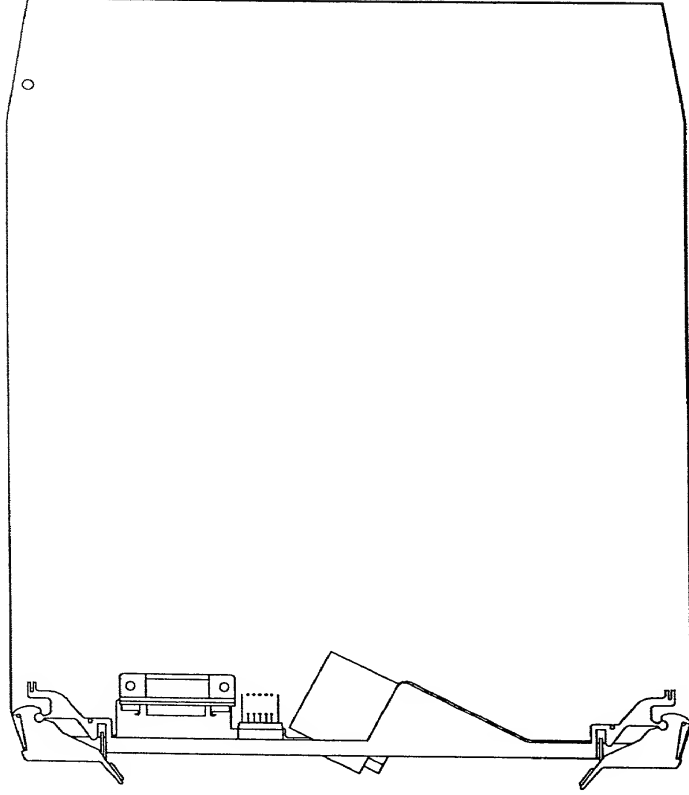


FIG. 14E

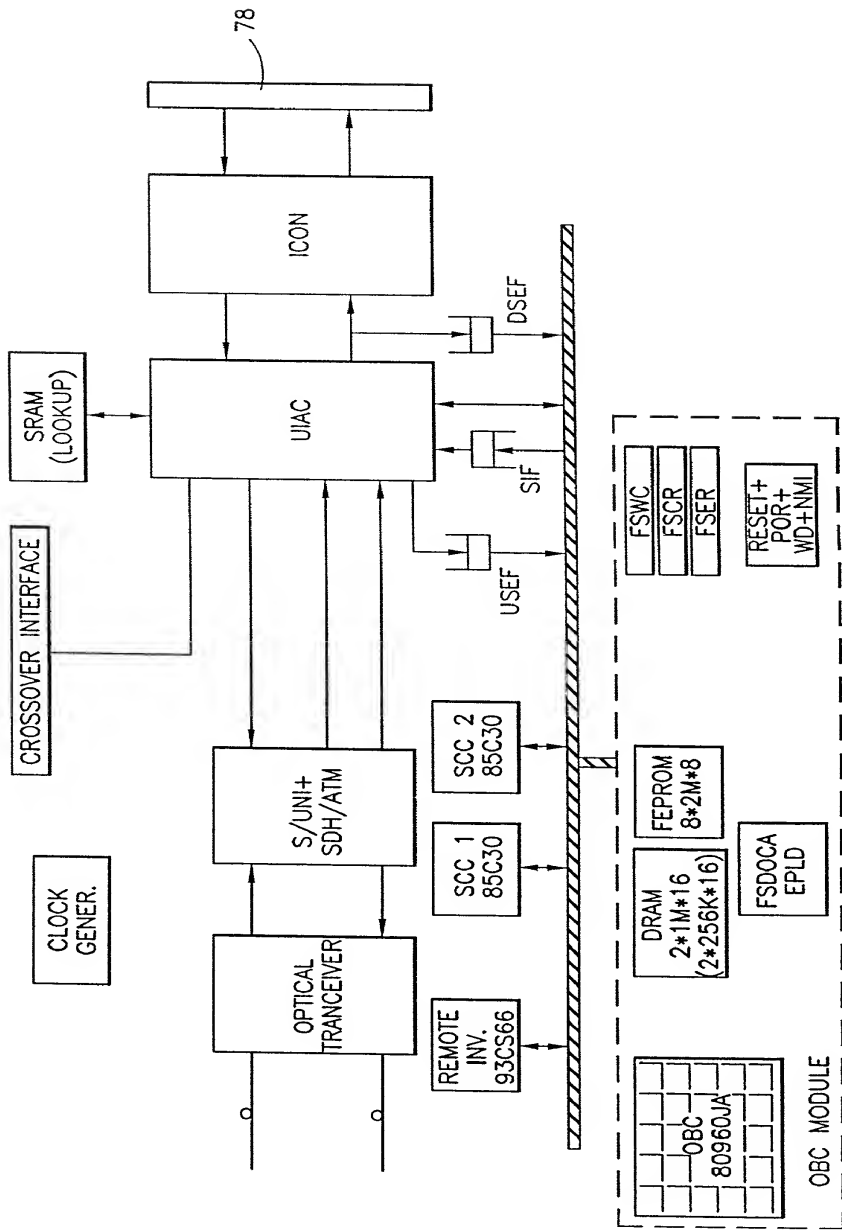


FIG. 14F

7	6	5	4	3	2	1	0	BIT/OCTET
GFC(*)				VPI				1
VPI				VCI				2
VCI								3
VCI				PTI		CLP		4
HEC								5

FIG. 14G

VPI			VCI				MODE
#3	#2	#1	#4	#3	#2	#1	
X	X	X			X		NNI
	X	X			X	X	UNI 1
		X		X	X	X	UNI 2

FIG. 14H

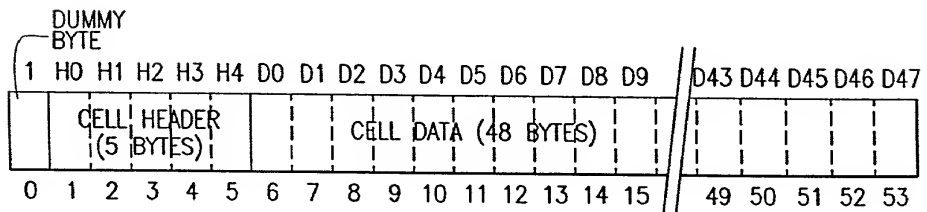


FIG. 15A

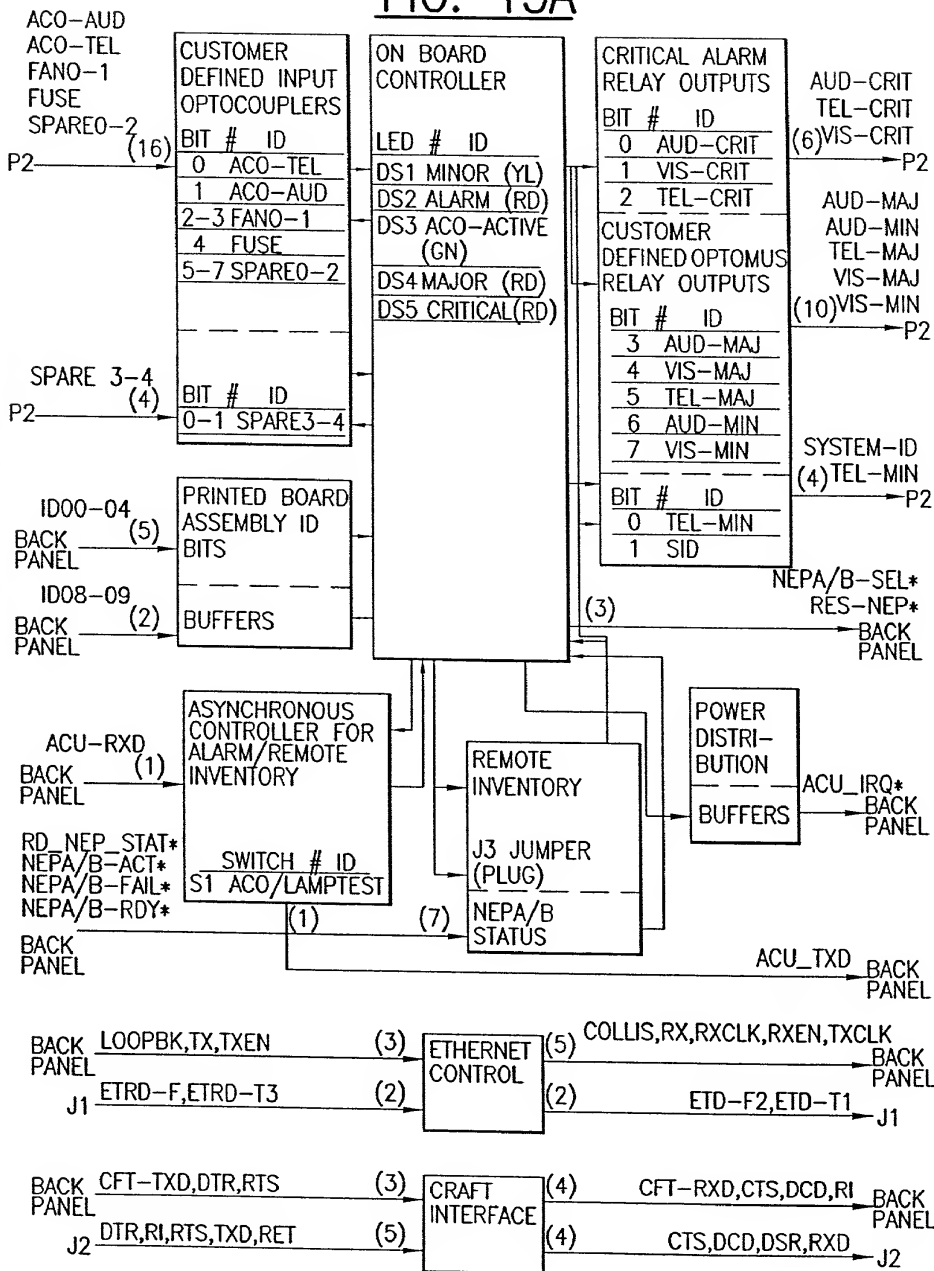


FIG. 15B

Item Number	Function Description
1	Provides a central office alarm interface
2	Provides a telemetry alarm interface
3	Collects up to 2 rack fan alarms, 1 Top Rack Unit (TRU) fuse alarm, 5 miscellaneous external alarms, 1 Alarm Cut-Off Audible Unit (ACO_AU) alarm, and 1 ACO Telemetry (ACO_TEL) alarm
4	Provides local craft terminal port
5	Provides an ethernet port (future option)
6	Provides a visual summary alarm display of rack minor, major, and critical alarm conditions
7	Provides a local Alarm Cut-Off (ACO) for Central Office (CO) alarms and a visual display of the ACO status
8	Provides a unit failure indicator
9	Provides a craft port for an asynchronous EIA-232-D function available to the user via a female 9-pin subminiature D connector on the front panel of the ACU
10	Handles input/output alarm information and generates alarm status/indicators via relay contacts or optical switches and Light Emitting Diodes (LEDs) for audible/visual/telemetry
11	Provides for a remote inventory function
12	Provides for Network Element Processor A (NEPA)/NEPB active/standby arbitration (future option)
13	Provides for NEPA/NEPB reset function (future option)
14	Provides for Joint Test Access Group (JTAG)/boundary scan testing

Note There is only one active craft port per ADSL system.

Note The backplane has 5 Identifier (ID) bits dedicated for slot information that are read to check for proper slot insertion (ie., each slot has a unique address).

FIG. 16

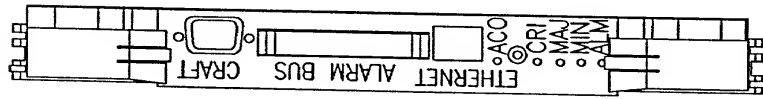


FIG. 17

